ROCK VANE:

Description

This work consists of the construction and maintenance of physical barriers placed in and along the stream at locations designated on the plans to direct the stream flow (thalweg) toward the center of the channel

The quantity of rock vanes to be installed will be affected by the actual conditions that occur during the construction of the project. The quantity of rock vanes may be increased, decreased, or eliminated entirely as directed. Such variations in quantity will not be considered as alterations in the details of construction or a change in the character of the work.

Materials

Refer to Division 10

ItemSectionBoulder1042 and SP for Structure StoneNo. 57 Stone1005Riprap, Class A1042-1Filter Fabric for Drainage, Type 21056

Boulders shall be used as header and footer rocks for this device.

Construction Methods

Rock vanes shall be constructed in accordance with the Rock Vane Detail shown in the plans or as directed. A vane, each approximately 1/3 of the stream channel's bankfull width, will form a 20°- 30° angle out from the streambank toward upstream. The top elevation of the vane will decrease from bankfull elevation toward the center of the channel at a slope of 4 to 20 percent. Install header and footer rocks according to the detail and plate the upstream side with Type 2 filter fabric and No. 57 stone. Voids between the header and footer rocks can be filled with hand-placed Class A riprap as directed. Footer rocks shall be placed such that the header rock is at streambed elevation. The rock vane shall be keyed into the bank at the downstream end as shown on the Rock Vane Detail.

Measurement and Payment

Boulders will be measured and paid for as provided elsewhere in this contract.

No. 57 Stone will be measured and paid for as provided elsewhere in this contract.

Riprap, Class __ will be measured and paid for in accordance with Article 876-4 of the *Standard Specifications*.

Filter Fabric for Drainage will be measured and paid for in accordance with Article 876-4 of the *Standard Specifications*.

Such price and payment will be full compensation for all work covered by this section, including, but not limited to furnishing all materials, labor, equipment, and incidentals necessary to construct the rock vanes.